

GV-1008

The GV-1008, as a three-in-one combo card, provides one single card solution for 8 video / audio recording, real-time display and TV-out display. The Card can record each channel at D1 in real time or 30 fps. When the two Cards are installed in the system, it can be utilized to provide a single TV-out display of 16 cameras and maintain a high recording rate of 480 fps at D1 resolution.

Minimum System Requirements

OS	32-bit	Windows XP / Windows Vista / Windows 7 / Windows Server 2008	
	64-bit	Windows 7 / Windows Server 2008	
CPU	GV-1008	Core 2 Duo, 3.0 GHz	
	GV-1008 x 2	Core i5-750, 2.66 GHz	
RAM	Windows XP	GV-1008	2 x 512 MB Dual Channels
		GV-1008 x 2	2 x 1 GB Dual Channels
	Windows Vista / 7 / Server 2008	GV-1008	2 x 1 GB Dual Channels
		GV-1008 x 2	
HDD	GV-1008	250 GB	
	GV-1008 x 2	500 GB	
Graphic Card	AGP or PCI-Express, 800 x 600 (1280 x 1024 recommended), 32-bit color		
DirectX	9.0c		

Packing List

- GV-1008 Card x 1
- Audio Extension Card x 1
- 1-8 D-Type Video Cable x 1
- 1-8 D-Type Audio Cable x 1
- 40-Pin Ribbon Cable with 3 Headers x 1
- Internal Power Y Cable x 1
- Hardware Watchdog Jumper Wire x 1
- Software DVD x 1
- Surveillance System Quick Start Guide x 1

Connecting One GV-1008 Card

- Plug the Audio Extension Card in the assigned connectors on the GV-1008 Card.
- Connect D-Type video cable and audio cable to the GV-1008 Card and Audio Extension Card respectively.
- Connect the supplied Hardware Watchdog Jump Wire (Figure 3).
- Connect the PC's internal power supply to the GV-1008 Card.
- Connect the TV monitor to the GV-1008 Card if needed.

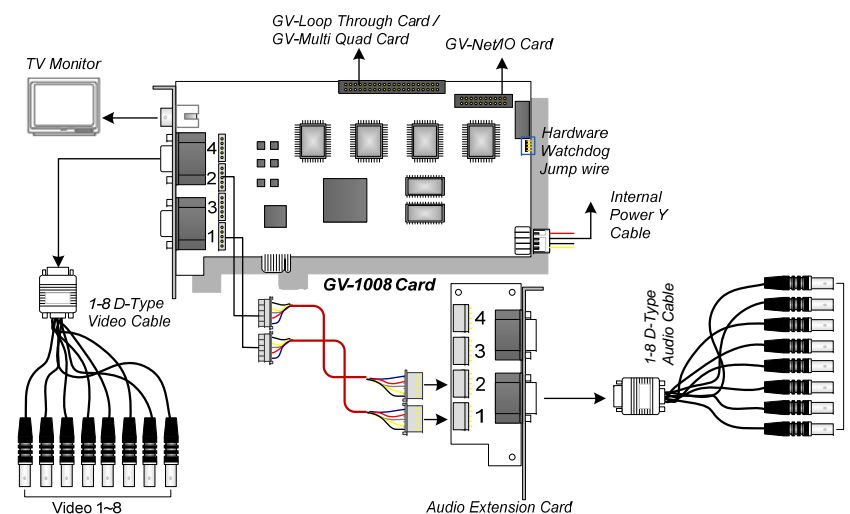


Figure 1

Note: The Card only works when it connects to PC's power supply using the supplied Internal Power Y Cable.

Connecting Two GV-1008 Cards

You can install the Master and Slave of GV-1008 Cards for a total of 16 channels. The Master and Slave are distinguished by the labels on cards, as shown below:

Master Card: 

Slave Card: 

Use the supplied 40-pin cable to connect the Master and Slave Cards together.

IMPORTANT:

1. The Slave Cards cannot work alone. They need to work in conjunction with the Master Cards.
2. If both GV-1008 Cards are Master Cards, it is required to identify which are Master and Slave by the PCI-E slot number. Normally, the card attached to the lower PCI-E slot number will act as Master, and the card attached to the higher PCI-E slot number will act as Slave.

- **Video Channels:** Connect only Video Channels 1~8 of the Master Card and Video Channels 9~16 of the Slave Card with the supplied D-Type Video Cables.
- **Audio channels:** Connect only Audio Channels 1~8 of the Master Card and Audio Channels 9~16 of the Slave Card to Audio Extension Card.
- **TV Output Connection:** Connect a TV Monitor to any of the RCA connectors on the Master and Slave Cards for displaying 1-16 channels.
- **Hardware Watchdog Connection:** Connect the supplied Hardware Watchdog Jump Wire to the Master Card only (Figure 3).
- **Accessory Card Connections:**
 - ⊙ GV-NET/IO Card: Connect the card only to the Master Card.
 - ⊙ GV-Loop Through Card: Connect one card to the 40-pin cable which connects both Master and Slave Cards.
 - ⊙ GV-Multi Quad Card: Connect one card to the 40-pin cable which connects both Master and Slave Cards.

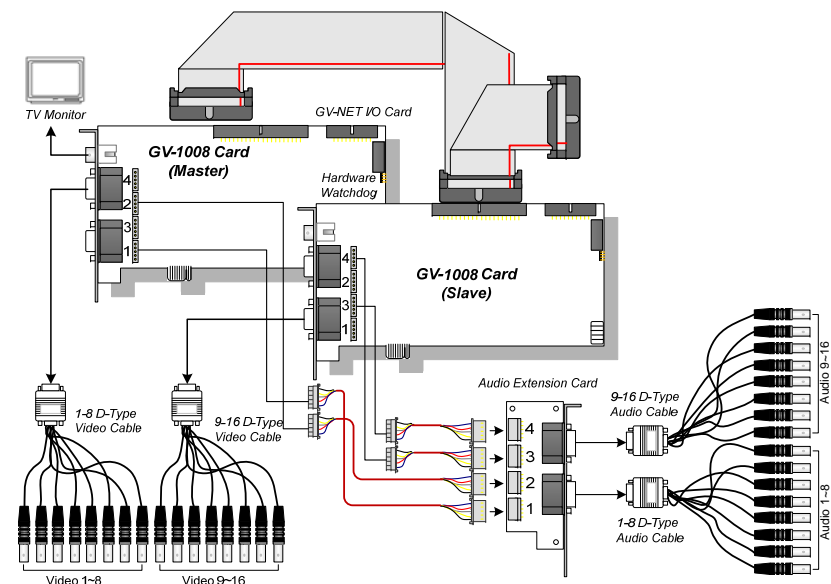


Figure 2

Connecting Hardware Watchdog

Insert the Hardware Watchdog Jumper Wire to the 2-pin connectors on the Card. The (+) pin on the Card must connect to the Reset (+) pin on the motherboard, and the (-) pin on the Card to the Ground (-) pin on the motherboard. Ensure the connection is correct; otherwise the hardware watchdog will not work.

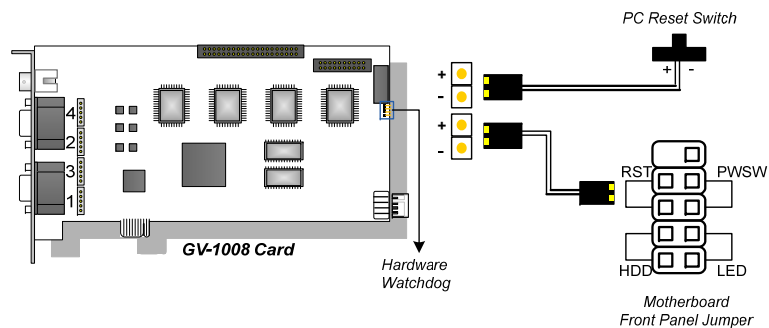


Figure 3

Note: To locate the motherboard's Reset (+) pin and (-) pin, please refer to the motherboard's user manual.

Installing Drivers

After installing the GV-1008 Card in the computer, insert the software DVD. The DVD will run automatically and an installation window will pop up. Select **Install or Remove GeoVision GV-Series Driver**, and select **Install or Remove GeoVision GV-Series Card Drivers** to install card drivers.

To verify the drivers are installed correctly, go to Windows Device Manager and see if their entries are listed. The image below is an example of installing one GV-1008 card.

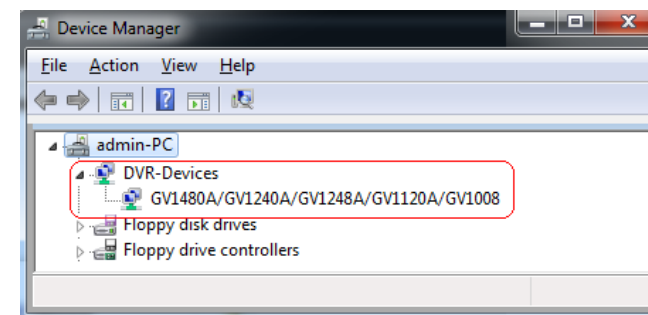


Figure 4

Expand the **DVR-Devices** field, you can see:

GV-1008 Card	Entry
Single-card mode	GV1480A/GV1240A/GV1248A/GV1120A/GV1008
Two-card mode	GV1480A/GV1240A/GV1248A/GV1120A/GV1008 GV1480A/GV1240A/GV1248A/GV1120A/GV1008

Specifications

			GV-1008	GV-1008 x 2
Interface			PCI-E (x1)	PCI-E (x1) x 2
Input Type			D-Type, DVI	
Video Input			8 Cams	16 Cams
TV Output			D-Type: RCA Connector DVI: BNC Connector	
Audio Input			8 Channels	16 Channels
Recording Rate	CIF	NTSC	240 fps	480 fps
		PAL	200 fps	400 fps
	D1	NTSC	240 fps	480 fps
		PAL	200 fps	400 fps
Display Rate	CIF	NTSC	240 fps	480 fps
		PAL	200 fps	400 fps
	D1	NTSC	240 fps	480 fps
		PAL	200 fps	400 fps
Video Resolution	NTSC		704 x 480, 704 x 480 (De-interlace), 640 x 480, 640 X 480 (De-interlace), 352 x 240, 320 x 240	
	PAL		704 x 576, 704 x 576 (De-interlace), 640 x 480, 640 X 480 (De-interlace), 352 x 288, 320 x 240	
Video Compression Format			Geo MPEG4, Geo H264	
Audio Compression Format			AAC (16 kHz / 16 bit)	
GV-Multi Quad Card Support			Yes	
GV-Loop Through Card Support			Yes	
GV-NET/IO Card Support			Yes	
Dimensions (W x H)			179 x 99 mm / 7.04 x 3.89 in	